

Please substitute the following claim:

Claim 1 (thrice amended):

1. A method for sequencing a polynucleotide, comprising the steps of:

- (i) reacting a target polynucleotide with a polymerase enzyme immobilised on a solid support, and complementary nucleotides, under conditions sufficient for the polymerase reaction; and
- (ii) detecting the interaction between the polymerase, the target polynucleotide and a specific nucleotide complementary to the target polynucleotide, wherein the nucleotide is incorporated into a nascent polynucleotide being synthesized as a result of the polymerase reaction, to thereby determine the sequence of the target polynucleotide, the detection being carried out by using surface plasmon resonance to measure a change in, or absorption of, radiation that occurs during the interaction.